FIG. 1

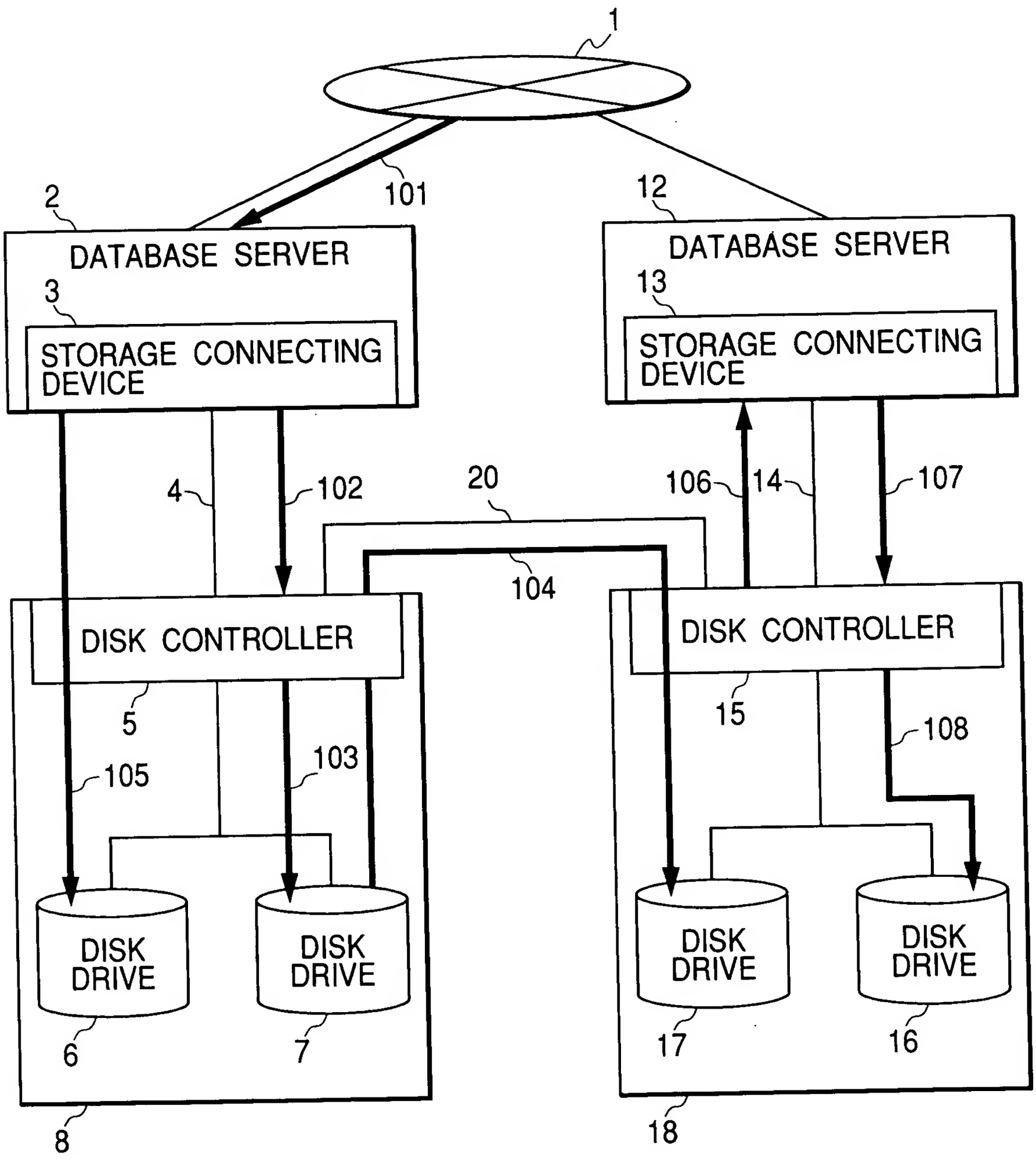

1
101
2
DATABASE SERVER
3
STORAGE CONNECTING DEVICE
12
DATABASE SERVER
13
STORAGE CONNECTING DEVICE
4
102
20
106
14
107
104
DISK CONTROLLER
DISK CONTROLLER
5
15
105
103
108
DISK DRIVE
DISK DRIVE
DISK DRIVE
DISK DRIVE
6
7
17
16
8
18

FIG. 2

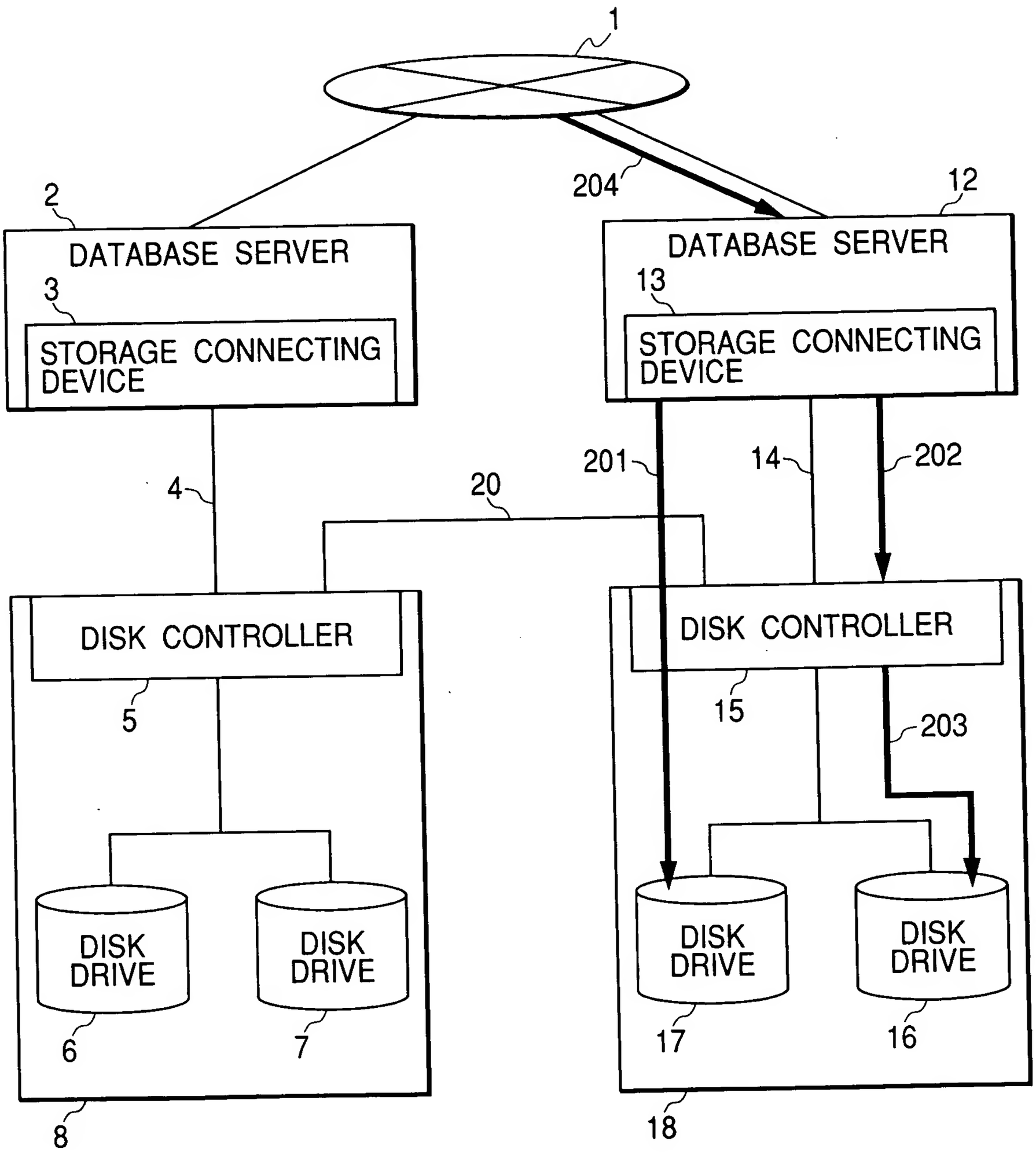

1
2
DATABASE SERVER
3
STORAGE CONNECTING DEVICE
204
12
DATABASE SERVER
13
STORAGE CONNECTING DEVICE
201
14
202
4
20
DISK CONTROLLER
5
DISK CONTROLLER
15
203
DISK DRIVE
DISK DRIVE
6
7
8
DISK DRIVE
DISK DRIVE
17
16
18

FIG. 3

PROCESSING PROCEDURE PERFORMED BY DATABASE SERVER OF PRIMARY SYSTEM

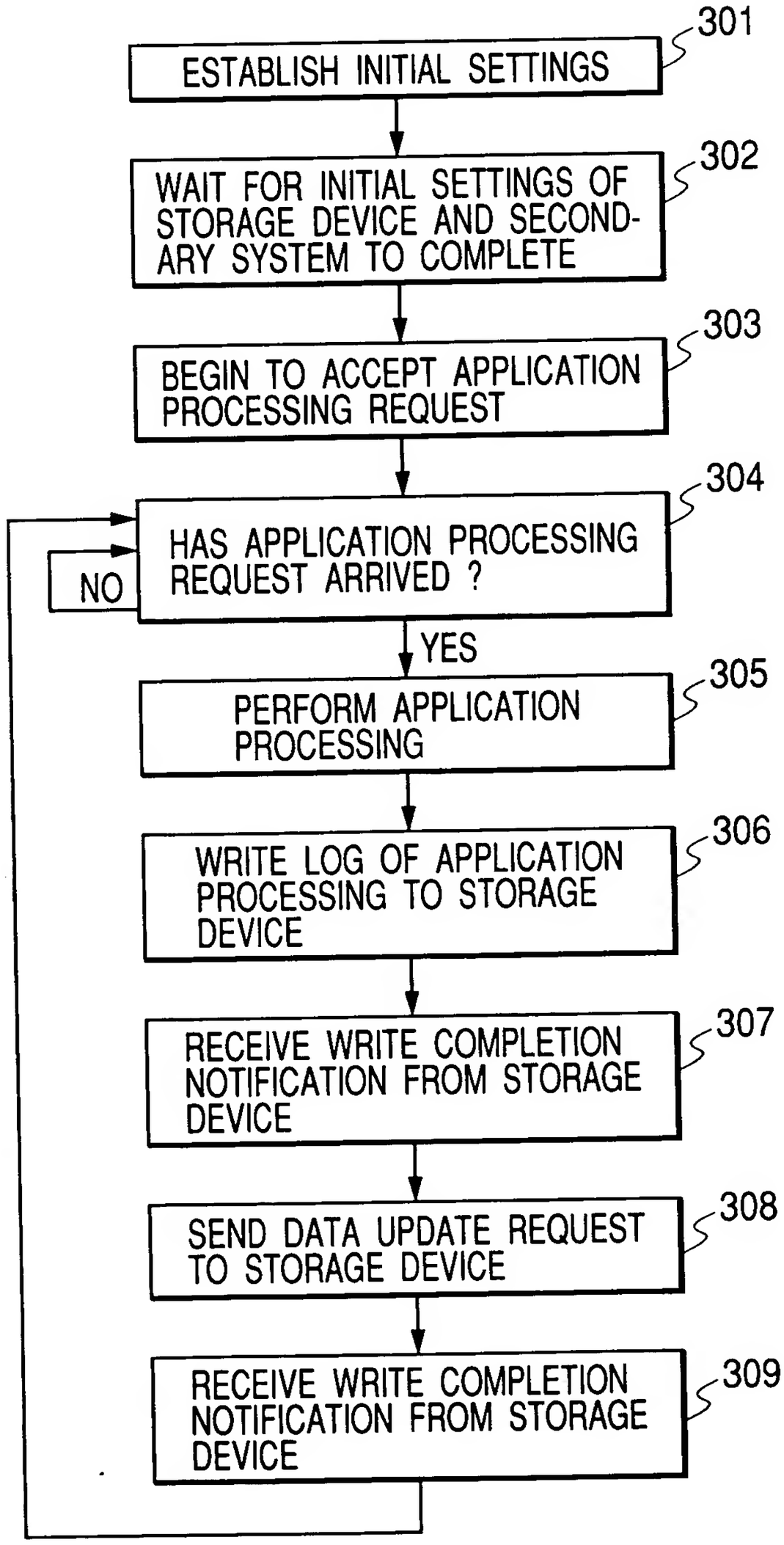


FIG. 4

PROCESSING PROCEDURE PERFORMED BY DATABASE SERVER OF SECONDARY SYSTEM

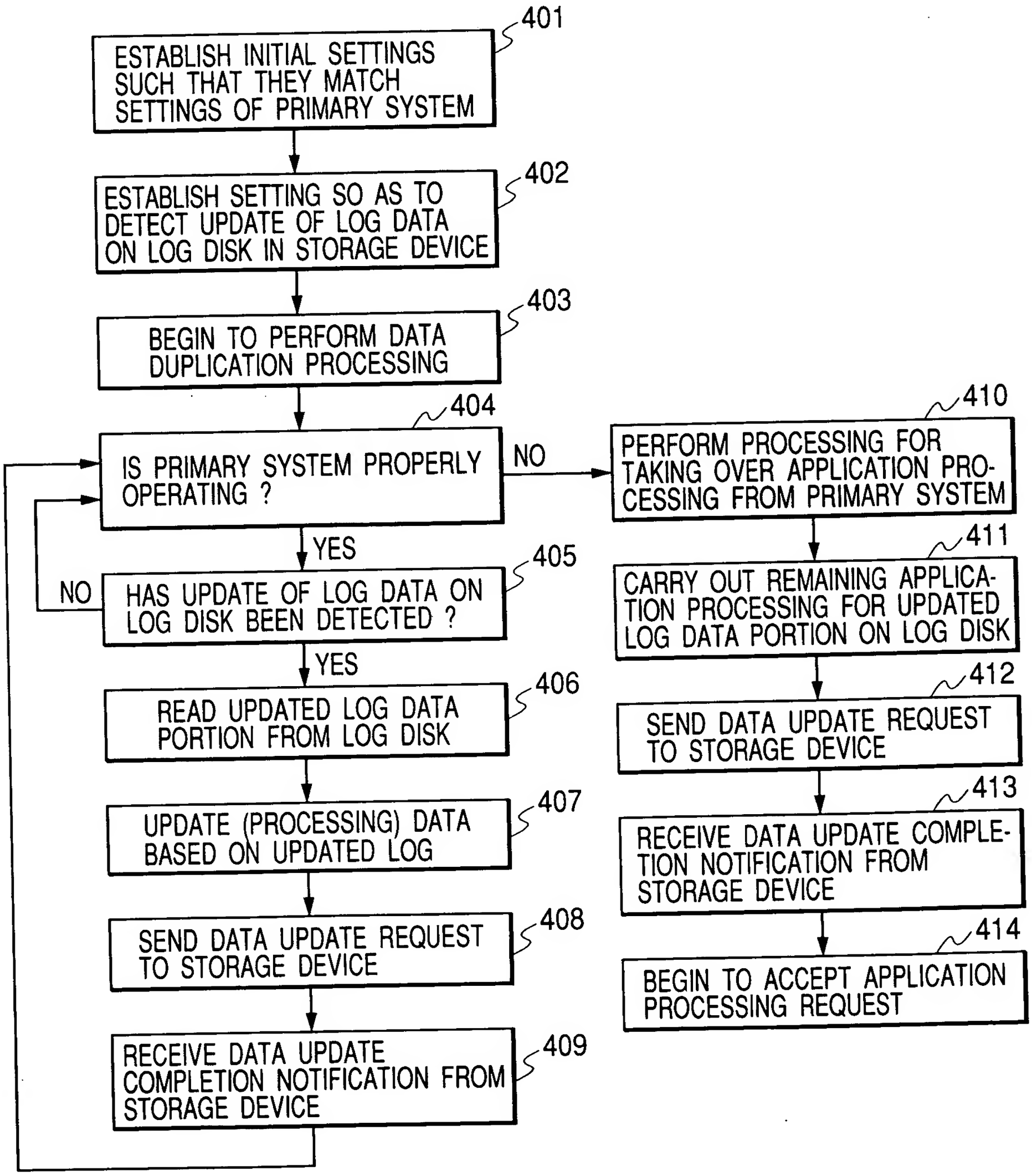


FIG. 5

PROCESSING PROCEDURE PERFORMED BY STORAGE DEVICE OF PRIMARY SYSTEM

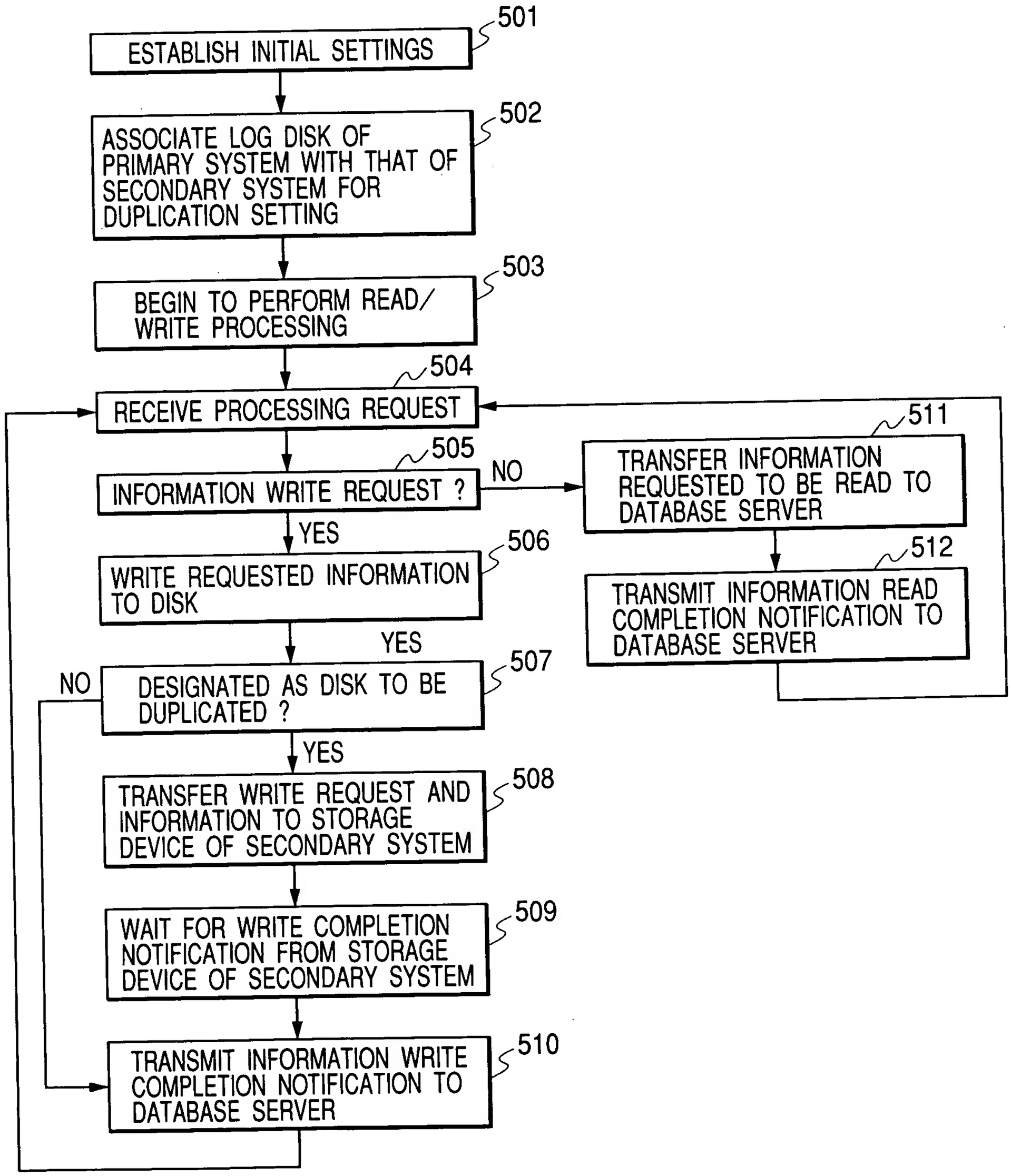


FIG. 6

PROCESSING PROCEDURE PERFORMED BY STORAGE DEVICE OF SECONDARY SYSTEM

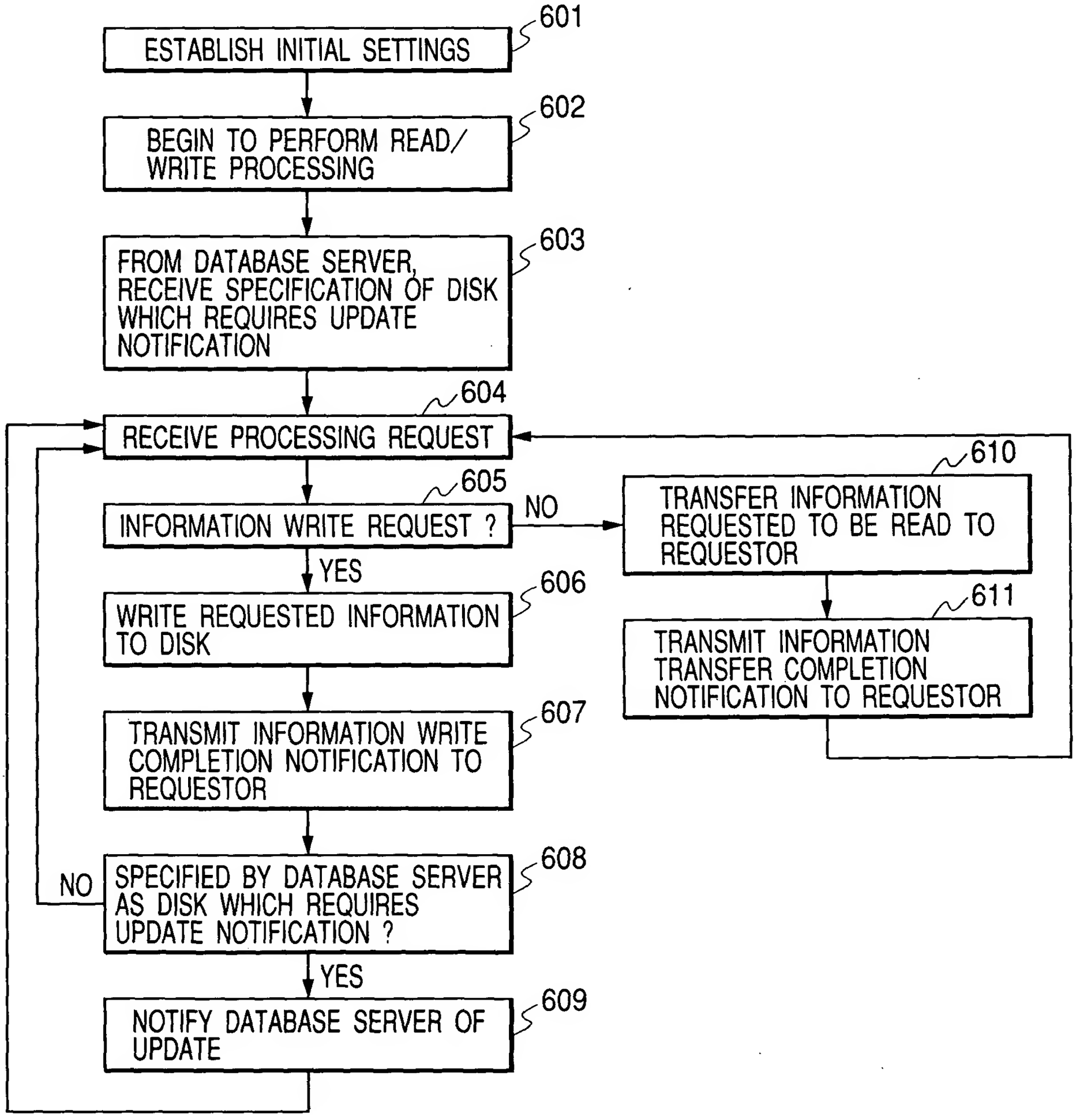
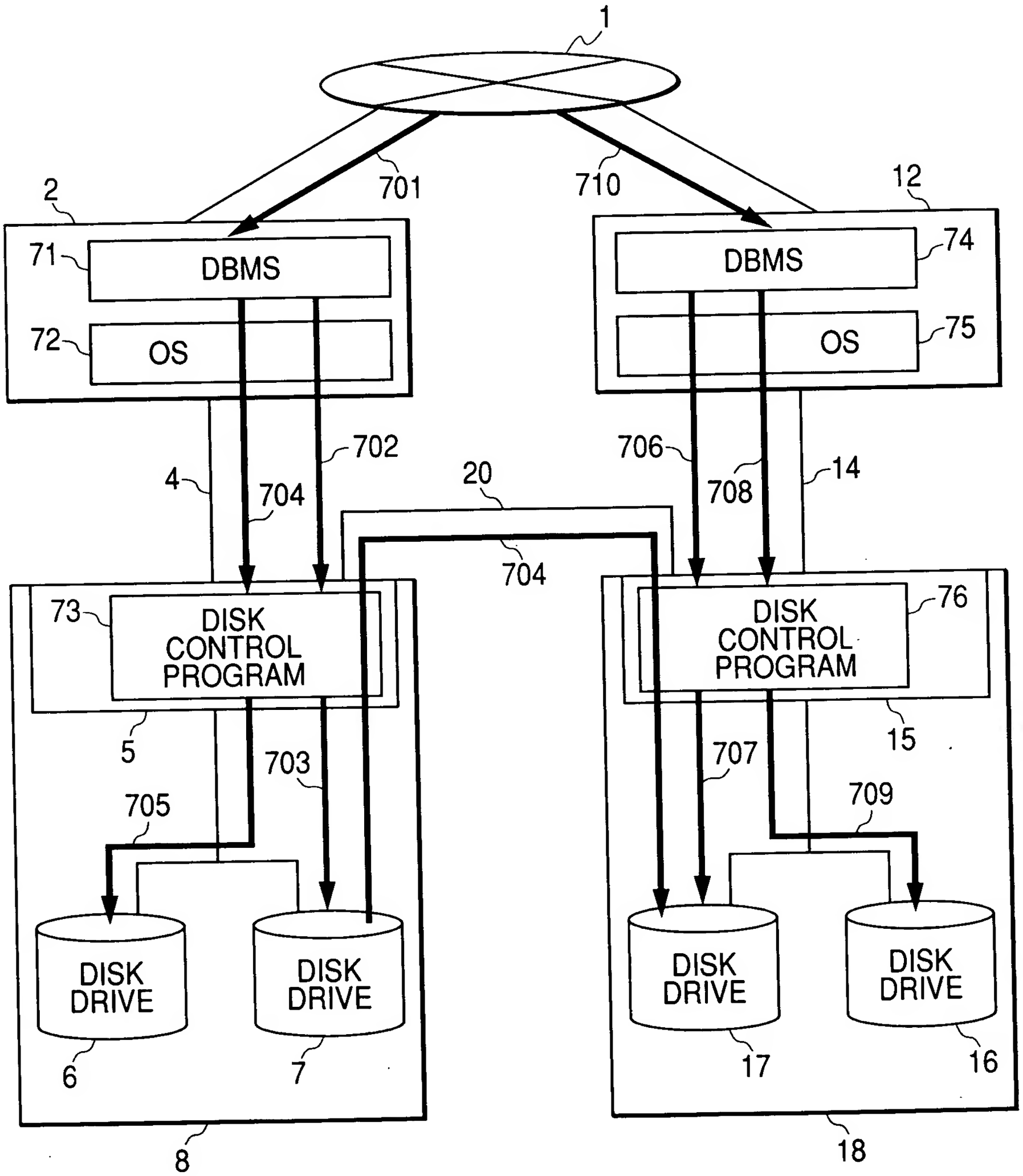


FIG. 7


1
2
701
710
12
71
DBMS
74
DBMS
72
OS
OS
75
4
704
702
706
708
14
20
704
73
DISK CONTROL PROGRAM
76
DISK CONTROL PROGRAM
5
703
707
15
705
709
DISK DRIVE
DISK DRIVE
DISK DRIVE
DISK DRIVE
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